

CLAIMS

What is claimed is:

1. A device for measuring alignment of a golf club with a shaft and a
5 head having a strike face and a back face, said device comprising:
a. a base member;
b. an abutment member fixed to said base member for abutting
said strike face;
c. at least one clamping member for abutting said back face, said
10 at least one clamping member being disposed on said base member and spaced from said
abutment member to fix said golf club head in a first direction between said at least one
clamping member and said abutment member;
d. an alignment member coupled to said base member and spaced
15 from said at least one clamping member in generally opposing relation thereto, said
alignment member being movable with respect to said clamping member to receive said golf
club shaft in a second direction,
wherein the positioning of said alignment member simultaneously
indicates the loft angle and lie angle of the golf club.

20 2. The device of claim 1, wherein said alignment member is slidably and
pivotably mounted.

3. The device of claim 2, wherein said alignment member comprises a
first indicator for indicating lie and a second indicator for indicating loft.

25 4. The device of claim 3, wherein said first indicator comprises a fixed
scale and a movable needle, said needle being coupled to a cradle for receiving said shaft.

5. The device of claim 4, wherein said second indicator comprises a
30 movable scale and a fixed needle.

6. The device of claim 6, wherein said base member further comprises at least two leveling bearings for abutting a sole of said head.

7. The device of claim 2, wherein said alignment member is slidable in a direction generally transverse to said clamping member and pivotable in a direction generally parallel to said clamping member.

8. The device of claim 7, wherein said alignment member is slidable in a direction generally parallel to said clamping member.

9. The device of claim 1, further comprising an adjusting bar having two protrusions, said protrusions defining a slot therebetween to receive and contour said shaft.

10. The device of claim 9, wherein each of said protrusions is a wheel rotatably secured to said adjusting bar and having a diameter greater than about 0.1 inches.

11. The device of claim 10, wherein said diameter is less than about 0.25 inches.

12. The device of claim 11, wherein said diameter is about $\frac{3}{8}$ inch.

13. The device of claim 12, wherein said slot is between about 1 to 4 inches.

14. The device of claim 13, wherein said slot is about 2.5 inches.

15. The device of claim 14, wherein said golf club is a putter.

16. A fixture for retaining a golf club with a shaft and a head having a strike face, comprising:

- a base plate having a top surface;
- a reference surface fixed to said base plate;

a clamp assembly coupled to said base plate in spaced relation and generally perpendicular to said reference surface;

a carriage coupled to said base;

a measurement member disposed in a plane generally perpendicular to said top surface, said measurement member coupled to said carriage in spaced and opposing relation to said clamp assembly, said measurement member comprising a cradle being rotatably coupled to said measurement member and movable with respect to said clamp assembly to receive said golf club shaft,

wherein retention of said club between said reference surface and said clamp assembly with said strike face abutting said reference surface permits said measurement member to simultaneously indicate a loft angle and a lie angle of the golf club.

17. The fixture of claim 16, wherein said measurement member is pivotably coupled to said carriage in a plane generally perpendicular to said top surface.

18. The fixture of claim 17, wherein said carriage is movable in a direction generally transverse to said clamp assembly and in a direction generally parallel to said clamp assembly.